

# Eric R Schreiter

## List of Publications by Year in descending order

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50  
papers

16,235  
citations

125106

35  
h-index

214428

50  
g-index

67  
all docs

67  
docs citations

67  
times ranked

19968  
citing authors

#	ARTICLE	IF	CITATIONS
1	The HaloTag as a general scaffold for far-red tunable chemigenetic indicators. <i>Nature Chemical Biology</i> , 2021, 17, 718-723.	3.9	86
2	Freeze-frame imaging of synaptic activity using SynTagMA. <i>Nature Communications</i> , 2020, 11, 2464.	5.8	19
3	A general approach to engineer positive-going eFRET voltage indicators. <i>Nature Communications</i> , 2020, 11, 3444.	5.8	31
4	jYCaMP: an optimized calcium indicator for two-photon imaging at fiber laser wavelengths. <i>Nature Methods</i> , 2020, 17, 694-697.	9.0	45
5	Erasable labeling of neuronal activity using a reversible calcium marker. <i>ELife</i> , 2020, 9, .	2.8	18
6	Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. <i>Science</i> , 2019, 365, 699-704.	6.0	362
7	Kilohertz frame-rate two-photon tomography. <i>Nature Methods</i> , 2019, 16, 778-786.	9.0	122
8	A genetically encoded near-infrared fluorescent calcium ion indicator. <i>Nature Methods</i> , 2019, 16, 171-174.	9.0	154
9	High-performance calcium sensors for imaging activity in neuronal populations and microcompartments. <i>Nature Methods</i> , 2019, 16, 649-657.	9.0	843
10	Improved methods for marking active neuron populations. <i>Nature Communications</i> , 2018, 9, 4440.	5.8	110
11	A genetically encoded Ca <sup>2+</sup> indicator based on circularly permuted sea anemone red fluorescent protein eqFP578. <i>BMC Biology</i> , 2018, 16, 9.	1.7	83
12	Inverse-response Ca <sup>2+</sup> indicators for optogenetic visualization of neuronal inhibition. <i>Scientific Reports</i> , 2018, 8, 11758.	1.6	8
13	Axonal Endoplasmic Reticulum Ca <sup>2+</sup> Content Controls Release Probability in CNS Nerve Terminals. <i>Neuron</i> , 2017, 93, 867-881.e6.	3.8	215
14	Neural signatures of dynamic stimulus selection in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2017, 20, 1104-1113.	7.1	113
15	All-optical functional synaptic connectivity mapping in acute brain slices using the calcium integrator CaMPARI. <i>Journal of Physiology</i> , 2017, 595, 1465-1477.	1.3	42
16	Sensitive red protein calcium indicators for imaging neural activity. <i>ELife</i> , 2016, 5, .	2.8	813
17	Design and Synthesis of a Calcium-sensitive Photocage. <i>Angewandte Chemie</i> , 2016, 128, 8503-8506.	1.6	2
18	Design and Synthesis of a Calcium-sensitive Photocage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8363-8366.	7.2	13

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19	A Low Affinity GCaMP3 Variant (GCaMPer) for Imaging the Endoplasmic Reticulum Calcium Store. PLoS ONE, 2015, 10, e0139273.	1.1	51
20	Labeling of active neural circuits in vivo with designed calcium integrators. Science, 2015, 347, 755-760.	6.0	377
21	Structural basis for the antipolymer activity of Hb $\alpha$ 2 $\beta$ 2 trapped in a tense conformation. Journal of Molecular Structure, 2015, 1099, 99-107.	1.8	3
22	Green-to-Red Photoconversion of GCaMP. PLoS ONE, 2015, 10, e0138127.	1.1	17
23	Ultrasensitive fluorescent proteins for imaging neuronal activity. Nature, 2013, 499, 295-300.	13.7	5,490
24	An optimized fluorescent probe for visualizing glutamate neurotransmission. Nature Methods, 2013, 10, 162-170.	9.0	827
25	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. Frontiers in Molecular Neuroscience, 2013, 6, 2.	1.4	629
26	Structure of fully liganded Hb $\alpha$ 2 $\beta$ 2 trapped in a tense conformation. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2061-2071.	2.5	5
27	Common genetic variation at the IL1RL1 locus regulates IL-33/ST2 signaling. Journal of Clinical Investigation, 2013, 123, 4208-4218.	3.9	101
28	A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. PLoS ONE, 2013, 8, e77728.	1.1	66
29	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. Journal of Neuroscience, 2012, 32, 13819-13840.	1.7	1,099
30	Neural activity imaging with genetically encoded calcium indicators. Progress in Brain Research, 2012, 196, 79-94.	0.9	58
31	Structure of the Escherichia coli Phosphonate Binding Protein PhnD and Rationally Optimized Phosphonate Biosensors. Journal of Molecular Biology, 2011, 414, 356-369.	2.0	60
32	A genetically encoded, high $\alpha$ signal $\alpha$ to $\alpha$ noise maltose sensor. Proteins: Structure, Function and Bioinformatics, 2011, 79, 3025-3036.	1.5	96
33	The structure, molecular dynamics, and energetics of centrin $\alpha$ melittin complex. Proteins: Structure, Function and Bioinformatics, 2011, 79, 3132-3143.	1.5	29
34	The heparin-binding domain of HB-EGF mediates localization to sites of cell-cell contact and prevents HB-EGF proteolytic release. Journal of Cell Science, 2010, 123, 2308-2318.	1.2	40
35	Structural Basis of Low-Affinity Nickel Binding to the Nickel-Responsive Transcription Factor NikR from Escherichia coli. Biochemistry, 2010, 49, 7830-7838.	1.2	24
36	Structural and Enzymatic Analysis of Orf6, a Novel Dehydratase from a Deep $\alpha$ Sea Polyunsaturated Fatty Acid Synthase. FASEB Journal, 2010, 24, lb193.	0.2	0

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37	Crystal Structures of the GCaMP Calcium Sensor Reveal the Mechanism of Fluorescence Signal Change and Aid Rational Design. <i>Journal of Biological Chemistry</i> , 2009, 284, 6455-6464.	1.6	226
38	Thioredoxin-independent Regulation of Metabolism by the $\hat{\pm}$ -Arrestin Proteins. <i>Journal of Biological Chemistry</i> , 2009, 284, 24996-25003.	1.6	168
39	Imaging neural activity in worms, flies and mice with improved GCaMP calcium indicators. <i>Nature Methods</i> , 2009, 6, 875-881.	9.0	1,759
40	Crystallization and preliminary X-ray characterization of the genetically encoded fluorescent calcium indicator protein GCaMP2. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 629-631.	0.7	7
41	Structural Basis of the Metal Specificity for Nickel Regulatory Protein NikR., <i>Biochemistry</i> , 2008, 47, 1938-1946.	1.2	54
42	S-Nitrosylation-induced Conformational Change in Blackfin Tuna Myoglobin. <i>Journal of Biological Chemistry</i> , 2007, 282, 19773-19780.	1.6	53
43	Ribbonâ€“helixâ€“helix transcription factors: variations on a theme. <i>Nature Reviews Microbiology</i> , 2007, 5, 710-720.	13.6	159
44	IL-33 and ST2 comprise a critical biomechanically induced and cardioprotective signaling system. <i>Journal of Clinical Investigation</i> , 2007, 117, 1538-1549.	3.9	859
45	Role of Thioredoxin in Cell Growth Through Interactions with Signaling Molecules. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 2143-2151.	2.5	100
46	NikR-operator complex structure and the mechanism of repressor activation by metal ions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13676-13681.	3.3	117
47	Crystal structure of the nickel-responsive transcription factor NikR. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 794-799.	3.6	165
48	Ionic Liquids Based on FeCl <sub>3</sub> and FeCl <sub>2</sub> . Raman Scattering and ab Initio Calculations. <i>Inorganic Chemistry</i> , 2001, 40, 2298-2304.	1.9	314
49	A Room-Temperature Molten Salt Prepared from AuCl <sub>3</sub> and 1-Ethyl-3-methylimidazolium Chloride. <i>Inorganic Chemistry</i> , 1999, 38, 3935-3937.	1.9	36
50	Freeze-Frame Imaging of Synaptic Activity Using SynTagMA. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1